Johns Hopkins University

Applied Physics Lab

Kossiakoff Center

11100 John Hopkins Road

Laurel, Maryland

October 6 & 7, 2011

Cryptologic History Symposium

"Cryptology in War and Peace: Crisis Points in History"

Historians from the NSA Center for Cryptologic History, other parts of the Intelligence Community, and the Department of Defense will join distinguished scholars from American and foreign academic institutions, along with veterans of the profession and others interested in cryptology, for two days of reflection and debate on the cryptologic past.

The theme for the upcoming conference will be "Cryptology in War and Peace: Crisis Points in History." Please make plans to join us for either one or both days of this intellectually stimulating conference. For more information, contact the Center for Cryptologic History at 301-688-2336 or via email at history@nsa.gov.
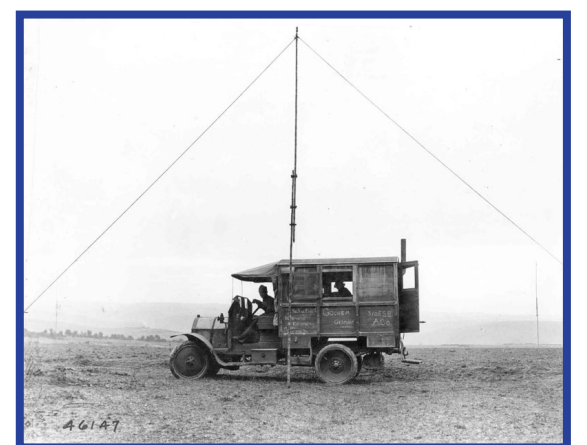
2011 Cryptologic History Symposium

Cryptology in War and Peace: Crisis Points in History

THURSDAY, 6 October 2011

0700 — Registration Opens

0800-0830 — Welcome and Day 1 Opening Address
Moderator: Dr. William J. Williams, NSA/CSS Center for Cryptologic History

KEYNOTE 1: Lt. Gen. Robert E. Schmidle, Jr.,
                        Deputy Commander, U.S. Cybercommand

"Understanding the Value of History in Intelligence"

0830-0845 — BREAK

0845-1000 — PANEL 1: "Pioneers in Cryptology"

Moderator: Dr. William J. Williams, NSA/CSS Center for Cryptologic History

Dr. Steven Bellovin, Columbia University
"Frank Miller and the Invention of the One-Time Pad"

Betsy Rohaly Smoot, Center for Cryptologic History
"'Fighting the Dammed Huns': The World War I Experience of Cryptologic Pioneers Colonel Parker Hitt and Genevieve Young Hitt"

Dr. Chris Christensen, Northern Kentucky University
"Lester Hill Revisited"

1000-1015 — BREAK

1015-1145 — f₩b₩ffᵺhᵍ∀ggᴊcbgᴸ˙
PANEL 2A: "British COMINT History"

Moderator: Howard S. Roberts, NSA/CSS Research Directorate

Dr. Jim Reeds, Institute for Defense Analyses
"Editing the 'General Report on TUNNY'"

Dr. Richard J. Aldrich, Professor, University of Warwick
"GCHQ–The Problems of Researching Open Secrets"

Tony Comer, Departmental Historian, Government Communications Headquarters
"History of Sources for British SIGINT History"˙

1015-1145 —PANEL 2B: "Early Modern Cryptology"
Moderator: Dr. Timothy J. Mucklow, NSA/CSS Center for Cryptologic History

Dr. Benedek Lang, Budapest University of Technology and Economics
"Towards a Social History of Early Modern Cryptography"

Erin Higgins, Department of Defense
"Humanism, Magic, and Cryptology in the Renaissance"

Dr. Nicholas Gessler, Duke University
"The Nicolas Bion Cipher Disk and Schotti's 1680 'Rotularium'"

1145-1300 — LUNCH

Moderator: Dr. David A. Hatch, NSA/CSS Center for Cryptologic History

KEYNOTE 2: Dr. Allen Weinstein, 9th Archivist of the United States

"Spies and Lies: NSA in Documents"

1300-1430 — (concurrent sessions)

PANEL 3A: "Sources for Cryptologic History"

Moderator: Dr. William J. Williams, NSA/CSS Center for Cryptologic History

Dr. Craig Bauer, York College of Pennsylvania, and NSA Scholar-in-Residence
"Open Problems in Cryptologic History"

Gene W. Anderson, University of California – San Diego
"What Leo Marks Never Knew: Coding Clues and Cipher Mismanagement during World War II"

Dr. Gerhard F. Strasser, The University of Pennsylvania
"Late 18th-Century French Encrypted Diplomatic 'Letters of Recommendation'"

Dr. N. Katherine Hayles, Duke University
"The Cryptographic Grille and Contemporary Literature'"

PANEL 3B: "The Challenges of Technology in History"

Moderator: Russell Kaufman, NSA/CSS Information Assurance Directorate

Dave Tompkins, Columnist for The Wire
"Vocoders in Music and Film"

Dr. Niels Jørgensen, Roskilde University
"How Encryption Became an Open Technology"

Elonka Dunin, Independent Scholar
"Kryptos–The Decades-Old Enigma at Langley"

Dr. Thomas J. Misa and Dr. Jeffrey Yost, University of Minnesota
"U.S. Computer Security Research and Standards (1965-1985)"

1430-1445 - BREAK

1445-1545 — (concurrent sessions)

PANEL 4A: "The FBI and ULTRA"

Moderator: Dr. Larry Valero, University of Texas at El Paso, and former NSA Scholar-in-Residence

Dr. Raymond J. Batvinis, Federal Bureau of Investigation (ret.)
"ULTRA and the FBI's Double Agent Program"

Dr. John F. Fox, Federal Bureau of Investigation
"OSTRICH–Or How Not to Stick One's Head in the Sand"

PANEL 4B: "Investigating the Voynich Manuscript"

Moderator: David C. Cooley, NSA/CSS Center for Cryptologic History

Klaus Schmeh, Independent Scholar
"New Research on the Voynich Manuscript"

Dr. Greg Hodgins, University of Arizona
"Radiocarbon Dating and the Voynich Manuscript

1545-1600 — BREAK

Moderator: Sharon Maneki, NSA/CSS Center for Cryptologic History

Discussion with panelists including Robert Hanyok, retired NSA senior historian, and in-theater cryptologic veterans such as General Alfred M. Gray, Jr., USMC (ret.); MSgt Stephen Crum, USAF (ret.); and Dr. Tom Glenn, civilian cryptologist with longest service in Vietnam.

2011 Cryptologic History Symposium

Cryptology in War and Peace: Crisis Points in History

FRIDAY, 7 October 2011

0700 — Registration Continues

0800-0830 — Day 2 Opening Address
Moderator: Dr. William J. Williams, NSA/CSS Center for Cryptologic History

KEYNOTE 3: David P. Cooley, NSA/CSS Center for Cryptologic History
"Voices from the Past: CCH's Oral History Collection"

0830-0845 — BREAK

0845-1000 — (concurrent sessions)
PANEL 5A: "Codes and Ciphers in the Civil War and Reconstruction"
Moderator: Barry D. Carleen, NSA/CSS Center for Cryptologic History

David Shanet Clark, DeKalb County Public Schools
"Instant Text Messages of the 1860s: President Lincoln's Telegraph Office and the Origins of Modern War Signals Communication"

Tim Carver, Trine University
"David Homer Bates: A Telegrapher for Lincoln"

Cheryl Heckler, Miami University
"The Hayes-Tilden Election, The Ciphers Dispatches and *The New York Tribune*'s Benchmark for Code Breaking"

PANEL 5B: "Naval COMINT and the Coming of World War II"
Moderator: Dr. Kent Sieg, NSA/CSS Center for Cryptologic History

Matt Zullo, Signals Intelligence Directorate
"Harry Kidder – A Transformational Cryptologic Giant"

Dr. Timothy J. Mucklow, NSA/Center for Cryptologic History
"Station CAST: Tip of the Lance"

Dr. Peter Donovan, University of New South Wales
"Breaking Japanese Naval Communications, March-May 1942"

1000-1015 — BREAK

1015-1145 - PANEL 6: "Communications as Sword and Shield:
Defense and Offense On-the-Air and On-Line"
Moderator: Jeffrey Cooper, Science Applications International Corporation

Dr. John Ferris, University of Calgary, and former NSA Scholar-in-Residence
"Operationalizing Communications Security for Offensive Advantage:
British Naval Cryptography and Cryptology in World War I"

Dr. Jonathan Winkler, Wright State University
"Who's in Charge?: The Larger Context of the Fight between U.S. Navy Intelligence and the Federal Communications Commission over Access to SIGINT in World War II"

Mircea Munteanu, Woodrow Wilson International Center for Scholars
"Cooperation between the Soviets and East European Intelligence on Aspects of Scientific and Technical Espionage and Counterespionage"

Dr. Michael Warner, U.S. Cyber Command
"Organizing U.S. Cyber Command and Operations Since the 1960s"

1145-1300 — LUNCH
Moderator: Dr. David A. Hatch, NSA/CSS Center for Cryptologic History

KEYNOTE 4: Professor Mary Tarantino, Department of Theater, The Ohio State University

"The Camouflage Project: Cryptology in a Performance/Exhibition"

1300-1415 — (concurrent sessions)

PANEL 7A: "COMINT and the Great War"
Moderator: Betsy Rohaly Smoot, NSA/CSS Center for Cryptologic History

Andrew Smoot, Department of Defense (ret.)
"Gumbinnen: The Battle That COMINT Didn't Win"

Dr. Thomas Boghardt, U.S. Army Center for Military History
"The Zimmermann Telegram Revisited: Interception, Publication, and Effect"

James "Jock" Bruce, U.K. Ministry of Defence (ret.)
"'Not According to Plan': British Army COMINT in 1914"

PANEL 7B: "Knowing the Adversary Through SIGINT"
Moderator: Gary Grantham, NSA/CSS Center for Cryptologic History

Dr. Jerca Vodusek Staric, University of Maribor
"Yugoslav Intercept of Axis Communications"

Maj. Patrick C. Roe, U.S. Marine Corps (ret.)
"The Chinese SIGINT Advantage in the Korean War"

Richard L. Bernard, NSA/CSS Center for Cryptologic History
"The Forefront for Foreign Missile and Space Intelligence: A History of the Defense Special Missile and Aerospace Center (DEFSMAC)"

1415-1430 — BREAK

1430-1545 —PANEL 8: "Cryptology in the Interwar Years"
Moderator: Dr. David A. Hatch, NSA/CSS Center for Cryptologic History

Dr. John F. Dooley, Knox College
"1929-1931: A Transition Point to US Cryptologic History"

Dr. Brian R. Sullivan, Independent Scholar
"'In the Kingdom of the Blind, Sometimes a Blind Man Can Be King': Italian Cryptology under the Fascist Regime, 1922-1940"

Dr. John Ferris, University of Calgary
"SIGINT and the 1922 Chanak Crisis"

1545-1600 — BREAK

1600-1730 — PLENARY 2: "War, Arlington Hall and AFSA: Memories of Cryptology in the 1940s and 1950s"
Moderator: William Kvetkas, NSA/CSS Center for Cryptologic History

Roundtable discussion of firsthand accounts regarding life and work at Arlington Hall during World War II through the last days of the Armed Forces Security Agency (AFSA). Panel will include Art Hausman, Jennie Brown, Ann Caracristi, Don Borrmann, Selmer Norland, and Jack Harney.

THE NATIONAL CRYPTOLOGIC MUSEUM WILL OPEN 1000 to 1200 ON 8 OCTOBER EXCLUSIVELY FOR CONFERENCE ATTENDEES.
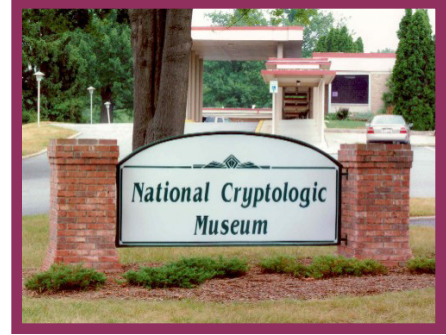
The Enigma (at left)

The Korean War Exhibit (at right)

The Vietnam War Exhibit (at left)

2011 Center for Cryptologic History Symposium
October 6 & 7, 2011

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Kossiakoff Center
11100 John Hopkins Road, Laurel, Maryland 20723-6099

Regular registration $60/day

Full-time Student Rate $30/day - Attach a photocopy of valid student ID

Fee includes daily breakfast and lunch
as well as morning and afternoon refreshments.
Shuttle bus service will be available from the lower level parking lot.

Mail registration form (one per individual) with payment by 21 Sept. 2011 to:
National Cryptologic Museum Foundation (NCMF)
POB 1682
Fort George G. Meade, MD 20755

For registration assistance call (301) 688-5436. For additional symposium
information call (301) 688-2336. NO REFUNDS AFTER 28 SEPTEMBER

-- REGISTRATION FORM --

Regular registration: Thursday 6 October _____($60)   Friday, 7 October _____($60)

Student rate: Thursday 6 October _____($30) Friday, 7 October _____($30)

Designate which concurrent panels you will attend: _____

Name: _____

Address: _____

Telephone:_____Email:_____Affiliation: _____

U.S. Citizenship: Yes_____ No_____ Country (if Non-U.S. Citizen) _____

Total Amount Enclosed: _____ (Checks Preferred: Make payable to NCMF)

NCMF also accepts Master Card, Visa, and American Express:

Credit Card Type & Credit Card Number: _____

Expiration Date: _____ (mm/dd/yy)

V-code: _____(last 3 numbers in signature block, AMEX - 4 digits on front)

Registrant is a presenter: [Y / N]

Signature (for credit cards)_____